VessRAID 1000s/1000i Series

Service Release Notes

Release Notes Document

Version: 5.0

Date: 2010/5/3

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Revision History

Revision	Date	Release Label	Release Version	Notes
1.0	2009/3/18	FCS	1.06.0000.00 (all) 0.00.0000.04 (redboot)	
2.0	2009/4/28	SR1.0	1.08.0000.00 (all) 1.00.0000.00 (redboot)	
3.0	2009/7/8	SR2.0	2.01.0000.00 (all) 1.00.0000.09 (redboot)	VessRAID iSCSI Release
4.0	2009/8/18	SR2.01	2.03.0000.00 (all) 1.02.0000.00 (redboot)	
4.1	2009/9/22	SR2.1	2.04.0000.00 (all) 1.03.0000.00 (redboot)	
5.0	2010/5/3	SR3.0	2.06.0000.00 (all) 1.11.0000.00 (redboot)	Functional upgrade with NAS feature

Table of Contents

1. CONTENTS FOR THIS RELEASE 4
2. FIRMWARE 4
2.1. VERSION 4
2.1.1 CURRENT VERSION 4
2.1.2. PREVIOUS RELEASED VERSION 4
2.2. HIGHLIGHTS AND ENHANCEMENTS IN THIS RELEASE 4
2.2.1. FW RELATED FIXES 5
2.2.2. SW RELATED FIXES 5
2.3. ERRATA FOR 2.06.0000.00 6
3. NOTES 6

1. Contents for This Release

The new released Service Release 3.0, v2.06.0000.00, is for VessRAID 1000s and 1000i series products, and the image can be used for models below. For NAS feature upgrade only iSCSI array type of system supports this enhancement.

1. VessRAID 1730s, 1830s, 1740s and 1840s
2. VessRAID 1720i, 1820i, 1730i, 1830i, 1740i and 1840i

2. Firmware

2.1. Version

2.1.1 Current Version

VessRAID Service Release 3.0(SR3.0): v2.06.0000.00

2.1.2. Previous Released Version

VessRAID Service Release 2.1(SR2.1): v2.04.0000.00

2.2. Highlights and Enhancements in this release

1. NAS feature support with VmWare ESX4.0 certified for both NAS and iSCSI array type.
2. PROMISE SAS HBA FastTrak TX8668 support with automatic configuration
3. Wake-On-SAS support
4. iSCSI performance improvement for Surveillance Applications
5. iSCSI performance improvement for Disk IO rates and sequential throughput
6. Performance improvement in critical and degrade mode of R5/R6.
7. MAID complete level support
8. Enclosure Thermal handling improvement
9. NTP support
10. SSH support
11. GUI Import and Export function consistent to VTrak series.
12. Performance Monitor in GUI
13. OPAS enhancement
    - Added counter support
    - Additional information in subsystem info.
14. Enclosure thermal cooler mode support for particular applications
15. Data services support such as Box-to-Box Replication, Online Client-to-Host Volume Sync and Backup, and NAS Fusion

2.2.1. FW Related Fixes

1. BT21283: PDM appears inactive if Bad Block Management entries over SAS drive threshold
2. BT22937 23566: Revertible spare drive becomes dead after system reboot
3. BT25937: On VessRAID iSCSI, host IO becomes slow when updating controller setting
4. BT20027: Misreport operating status of Physical Drive
5. BT25303: Reboot reason may be cleared in event specific data field.
6. BT26001: Added a new event to log the case of DDF write failure.
7. BT25072 25812: Improved firmware performance for use in channel over surveillance application
8. BT25932: Set Drive Down when Reassign Fails
9. BT26110: Array and PD info appear inconsistent when rebuild stops
10. BT25445: Media Patrol target order goes wrong after PD unplug
11. BT26205: Improved I/O throughput during rebuild
12. BT24322: Fully charged battery module gets a "Battery is charging" wrong event after reboot
13. BT24534: When DHCP lease is expired, iSCSI Port does not follow DHCP rule
14. BT26335: Can't connect to WebPAM PROe when mgmt and iSCSI ports in same subnet
15. Correct voltage display. The “unconditional rounding method” was used to display that cause people’s concern when see 4.8V.

2.2.2. SW Related Fixes

1. BT25356: If image size exceeds 20.48MB, the percentage calculation display shows more than 100% while updating image from GUI.
2. BT24620: Vess iSCSI port information needs to be aligned better under the GUI.
3. BT26128: OPAS retrieval does not include Link Aggregation information
4. BT26083: Restore factory default function doesn’t work for WOL and iSNS port ID
5. BT20999: Added power management event support
6. BT26276: SNMP enclosure status always returns temperature sensor critical
7. BT26290: Missed "enclosure setting" in restore factory default in CLU
8. BT26670: linkaggr should be restored to default in "netiscsi"
9. BT26713: set linkaggr failed if master port can't get IP address from DHCP
10. BT26553: After creating LD in advance mode of GUI, capacity unit will change to xx 'B' – Byte.
11. BT26873: In CLU, WebPAM iSCSI Node has no NOP-IN item.
12. BT26983: There is no Current Write Policy field under LD Information

13. BT 27663: There is an un-expected event (switch from WB to WT) during battery recondition when AdaptiveWBCache of controller setting is enabled.
14. BT28119: LD default capacity should be maximum value
15. BT28124: PDM value is incorrect when use GUI to create array
16. BT26979: BBU background image presents in the Enclosure View of GUI without BBU installed

2.3. Errata for 2.06.0000.00

ID	Errata	Workaround
1	Incorrect topology of reverse connection to SAS expansion port may not work properly.	Please refer to user manual for the directions to connect correctly while set up
2	Compatibility issue with QLogic iSCSI QLE4062C HBA during boot sequence under VMware environment. (1) Install ESX server at onboard disk (2) Login session and install VMware on the VessRAID 1000i system. (3) Shutdown ESX server and the VessRAID system. (4) Power on the VessRAID system. (5) Power on ESX server ➔ VMware kernel fails in initial storage discovery phase.	(1) Remove the target (VessRAID) connection with the initiator (QLogic QLE4062C) before the ESX server shutdown. And then recreate connection after the ESX server power on. (2) Change boot sequence to boot up the ESX server before the VessRAID. (3) Login session to VessRAID with CHAP.

3. Notes

1. Please refer USB/SAS HBA compatibility list to get rid of compatibility issue.
2. Companion version of SAS JBOD need to be 2.09.0000.04 or later.
3. The default IP address of VessRAID management port is 192.168.0.1.
4. The GUI status bar shows more than 100% completion when renewing firmware from old to new version. This is only a display issue.
5. Limitation: In the use with FastTrak TX8668 controller card, performing SAS-wide cables hot-switch with each other while system is up and running is unacceptable as this sometimes might create some error messages.